

APPENDIX A

```
/*
 * Domain.java
 *
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 *
 */
package com.genmagic.util;

public interface Domain {
    public boolean isVisited();
    public boolean setVisited(boolean b);
    public String getName();
}
```

```

/*
 * DomainController.java
 *
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 *
 */
package com.genmagic.util;

import java.util.Vector;

public class DomainController implements java.io.Serializable {
    Vector _domains = new Vector();
    int _current = 0;

    public DomainController() {
    }

    public void setDomains(Vector v) {
        _domains = v;
    }

    private Domain getCurrentDomain() {
        return getDomainAt(_current);
    }

    private Domain getDomainAt(int i) {
        return (Domain)_domains.elementAt(i);
    }

```

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    }

    public boolean isCurrentDomainVisited() {
        return getCurrentDomain().isVisited();
    }

    public String getDomainName() {
        return getCurrentDomain().getName();
    }

    public void moveToNext() {
        for (;_current < _domains.size()-1; _current ++ ) {
            if (getCurrentDomain().isVisited() == false) {
                getCurrentDomain().setVisited(true);
                return;
            }
        }
    }

    public void moveToPrevious() {
        _current --;
    }

    public boolean hasPrevious() {
        return _current >0;
    }

    public boolean hasMore() {
        for (int i=_current; i < _domains.size()-1; i ++ ) {
            if (getCurrentDomainAt(i).isVisited() == false) {
                return true;
            }
        }
    }

```



```

<?xml version="1.0"?>
<!--
 * FILE_NAME
 *
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 *
-->

<% String DNIS = request.getParameter("DNIS");
   String ANI = request.getParameter("ANI"); %>
<vxml version="1.0">

<form>
<block>
  <% if (DNIS.startsWith("800123")) { %>
    <!-- rout a call to banking service number to banking application -->
    <goto next="http://banking.genmagic.com/bankingService.jsp"/>
    <% if (ANI.startsWith("8004567890")) { %>
      <!-- rout a call from specific number to specific URL -->
      <goto next="http://my.genmagic.com/oshima.jsp"/>
    <% } %>
    </block>
  </form>
</vxml>

```



```

public String getPrompts() {
    return toVXML();
}

abstract protected Vector construct();

protected static java.util.Random rand = new java.util.Random();

public String toVXML() {
    if (_cache == null) {
        synchronized (this) {
            if (_cache == null) {
                _cache = construct();
            }
        }
    }
    return (String)_cache.elementAt( (int)(rand.nextFloat() * _cache.size()));
}
}

```

```

/*
 * Message.java
 *
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 *
 */
package com.genmagic.util;

import java.util.Date;

public interface Message {
    public String getForm();
    public String getSubject();
    public Date getDate();
    public String getBody();
}

```



```

    }

    public void moveToNext() {
        _current ++;
    }

    public void moveToFirst() {
        _current = 0;
    }

    public void moveToLast() {
        _current = _messages.size() - 1;
    }

    public void moveToPrevious() {
        _current --;
    }

    public boolean isLast() {
        return _current == _messages.size() -1;
    }

    public boolean isFirst() {
        return _current == 0;
    }
}

```

```

/*
 * RandomPrompts.java
 *
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 *
 */
package com.genmagic.util;

import java.util.Vector;
import java.util.Enumeration;

public class RandomPrompts extends PromptSet {

    synchronized protected Vector construct() {
        int size = _prompts.size();
        Vector cache = new Vector();

        int base = 0;

        int six = size % 6;
        int five = size % 5;
        int four = size % 4;

        int min = Math.min(six, five);
        int max = Math.max(six, five);

        if (size <= 8) {

```



```

buf.append("<var name='tmp' expr='Math.random()*" +
    n + "'/>\n");
buf.append("<if cond='1.0>=tmp'>\n");
buf.append("<audio src='builtin:" + _prompts.elementAt(i) + "'/>\n");
i++;
for (int j=1; j < n && i < size; j++, i++) {
    buf.append("<elseif cond='" + (j+1) + ".0>=tmp' />\n");
    buf.append("<audio src='builtin:" + _prompts.elementAt(i) + "'/>\n");
}
buf.append("</if>");
cache.addElement(buf.toString());
}
if (cache.size()==0) {
    cache.addElement("");
}
return cache;
}

public static void main(String a[]) throws Exception {
    RandomPrompts r = new RandomPrompts();
    r.setAddPrompt("a.wav");
    r.setAddPrompt("b.wav");
    r.setAddPrompt("c.wav");
    r.setAddPrompt("d.wav");
    r.setAddPrompt("e.wav");
    r.setAddPrompt("f.wav");
    r.setAddPrompt("g.wav");

    r.toVXML();
    System.out.println(r.toVXML());
}

```

\frown [illegible]